

### Untitled-4 Formatted Alignment

|          |                       |                                   |                        |     |
|----------|-----------------------|-----------------------------------|------------------------|-----|
| <b>A</b> | hUCPH                 | ATGGTGGGT TCAAGGCCAC AGATGTGCC    | CCTACTGCCA CTGTGAAGTT  | 50  |
| <b>B</b> | hUCP2 (Fleury)        | ATGGTGGGT TCAAGGCCAC AGATGTGCC    | CCTACTGCCA CTGTGAAGTT  | 50  |
| <b>C</b> | hUCP2 (Chen, Tularik) | ATGGTGGGT TCAAGGCCAC AGATGTGCC    | CCTACTGCCA CTGTGAAGTT  | 50  |
|          |                       |                                   |                        |     |
|          | hUCPH                 | TCTTGGGCT GGCACAGCTG CCTGCATGCC   | AGATCTCATC ACCTTTCCCTC | 100 |
|          | hUCP2 (Fleury)        | TCTTGGGCT GGCACAGCTG CCTGCATGCC   | AGATCTCATC ACCTTTCCCTC | 100 |
|          | hUCP2 (Chen, Tularik) | TCTTGGGCT GGCACAGCTG CCTGCATGCC   | AGATCTCATC ACCTTTCCCTC | 100 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | TGGATACTGC TAAAGTCCGG TTACAGATCC  | AAGGAGAAAG TCAGGGGCCA  | 150 |
|          | hUCP2 (Fleury)        | TGGATACTGC TAAAGTCCGG TTACAGATCC  | AAGGAGAAAG TCAGGGGCCA  | 150 |
|          | hUCP2 (Chen, Tularik) | TGGATACTGC TAAAGTCCGG TTACAGATCC  | AAGGAGAAAG TCAGGGGCCA  | 150 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | GTGCGCGCTA CAGCAGCCG CCAGTACCCG   | GGTGTGATGG GCACCATTCT  | 200 |
|          | hUCP2 (Fleury)        | GTGCGCGCTA CAGCAGCCG CCAGTACCCG   | GGTGTGATGG GCACCATTCT  | 200 |
|          | hUCP2 (Chen, Tularik) | GTGCGCGCTA CAGCAGCCG CCAGTACCCG   | GGTGTGATGG GCACCATTCT  | 200 |
|          |                       |                                   |                        |     |
| <b>D</b> | hUCPH                 | GACCATGGTG CGTACTGAGG GCCCCCGAAG  | CCTCTACAAT GGGCTGGTIG  | 250 |
|          | hUCP2 (Fleury)        | GACCATGGTG CGTACTGAGG GCCCCCGAAG  | CCTCTACAAT GGGCTGGTIG  | 250 |
|          | hUCP2 (Chen, Tularik) | GACCATGGTG CGTACTGAGG GCCCCCGAAG  | CCTCTACAAT GGGCTGGTIG  | 250 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | CGGGCTGCA GCGCCAAATG ACCTTTGCCT   | CTGTCGGCAT CGGGCTGTAT  | 300 |
|          | hUCP2 (Fleury)        | CGGGCTGCA GCGCCAAATG ACCTTTGCCT   | CTGTCGGCAT CGGGCTGTAT  | 300 |
|          | hUCP2 (Chen, Tularik) | CGGGCTGCA GCGCCAAATG ACCTTTGCCT   | CTGTCGGCAT CGGGCTGTAT  | 300 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | GATTCTGTCA AACAGTTCTA CACCAAGGGC  | TCTGAGCATG CCAGCATTGG  | 350 |
|          | hUCP2 (Fleury)        | GATTCTGTCA AACAGTTCTA CACCAAGGGC  | TCTGAGCATG CCAGCATTGG  | 350 |
|          | hUCP2 (Chen, Tularik) | GATTCTGTCA AACAGTTCTA CACCAAGGGC  | TCTGAGCATG CCAGCATTGG  | 350 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | GAGCCGCCCTC CTAGCAGGCA GCACCACAGG | TGCCCTGGCT GTGGCTGTGG  | 400 |
|          | hUCP2 (Fleury)        | GAGCCGCCCTC CTAGCAGGCA GCACCACAGG | TGCCCTGGCT GTGGCTGTGG  | 400 |
|          | hUCP2 (Chen, Tularik) | GAGCCGCCCTC CTAGCAGGCA GCACCACAGG | TGCCCTGGCT GTGGCTGTGG  | 400 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | CCCAGCCAC GGATGTGGTA AAGGTCCGAT   | TCCAAGCTCA GGGCCGGGCT  | 450 |
|          | hUCP2 (Fleury)        | CCCAGCCAC GGATGTGGTA AAGGTCCGAT   | TCCAAGCTCA GGGCCGGGCT  | 450 |
|          | hUCP2 (Chen, Tularik) | CCCAGCCAC GGATGTGGTA AAGGTCCGAT   | TCCAAGCTCA GGGCCGGGCT  | 450 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | GGAGGTGGTC GGAGATACCA AAGCACCCTC  | AATGCCTACA AGACCATTGC  | 500 |
|          | hUCP2 (Fleury)        | GGAGGTGGTC GGAGATACCA AAGCACCCTC  | AATGCCTACA AGACCATTGC  | 500 |
|          | hUCP2 (Chen, Tularik) | GGAGGTGGTC GGAGATACCA AAGCACCCTC  | AATGCCTACA AGACCATTGC  | 500 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | CCGAGAGGAA GGGTCCGGG GCCTCTGGAA   | AGGGACCTCT CCCAATGTIG  | 550 |
|          | hUCP2 (Fleury)        | CCGAGAGGAA GGGTCCGGG GCCTCTGGAA   | AGGGACCTCT CCCAATGTIG  | 550 |
|          | hUCP2 (Chen, Tularik) | CCGAGAGGAA GGGTCCGGG GCCTCTGGAA   | AGGGACCTCT CCCAATGTIG  | 550 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | CTCGTAATGC CATTGTCAAC TGTGCTGAGC  | TGGTGACCTA TGACCTCATC  | 600 |
|          | hUCP2 (Fleury)        | CTCGTAATGC CATTGTCAAC TGTGCTGAGC  | TGGTGACCTA TGACCTCATC  | 600 |
|          | hUCP2 (Chen, Tularik) | CTCGTAATGC CATTGTCAAC TGTGCTGAGC  | TGGTGACCTA TGACCTCATC  | 600 |
|          |                       |                                   |                        |     |
|          | hUCPH                 | AAGGATGCCC TCCTGAAAGC CAACCTCATG  | ACAGATGACC TCCCTTGCCA  | 650 |
|          | hUCP2 (Fleury)        | AAGGATGCCC TCCTGAAAGC CAACCTCATG  | ACAGATGACC TCCCTTGCCA  | 650 |
|          | hUCP2 (Chen, Tularik) | AAGGATGCCC TCCTGAAAGC CAACCTCATG  | ACAGATGACC TCCCTTGCCA  | 650 |

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|                     |            |   |     |
|---------------------|------------|---|-----|
| hUCPH               | CTTCA      | TTCT GCCTTGGGG CAGGCTTCIG CACCACTGTC ATCGCCTCCC | 700 |
| hUCP2(Fleury)       | CTTCA      | TTCT GCCTTGGGG CAGGCTTCIG CACCACTGTC ATCGCCTCCC | 700 |
| hUCP2(Chen,Tularik) | CTTCA      | TTCT GCCTTGGGG CAGGCTTCIG CACCACTGTC ATCGCCTCCC | 700 |
| hUCPH               | CTGTAGACGT | GGTCAAGACG AGATACATGA ACTCTGCCCT GGGCCAGTAC     | 750 |
| hUCP2(Fleury)       | CTGTAGACGT | GGTCAAGACG AGATACATGA ACTCTGCCCT GGGCCAGTAC     | 750 |
| hUCP2(Chen,Tularik) | CTGTAGACGT | GGTCAAGACG AGATACATGA ACTCTGCCCT GGGCCAGTAC     | 750 |
| hUCPH               | AGTAGCGCTG | GCCACTGTGC CCTTACCATG CTCCAGAAGG AGGGGCCCCG     | 800 |
| hUCP2(Fleury)       | AGTAGCGCTG | GCCACTGTGC CCTTACCATG CTCCAGAAGG AGGGGCCCCG     | 800 |
| hUCP2(Chen,Tularik) | AGTAGCGCTG | GCCACTGTGC CCTTACCATG CTCCAGAAGG AGGGGCCCCG     | 800 |
| hUCPH               | AGCCTTCTAC | AAAGGGTCA TGCCCTCCCT TCTCCGCTTG GGTCCTCGGA      | 850 |
| hUCP2(Fleury)       | AGCCTTCTAC | AAAGGGTCA TGCCCTCCCT TCTCCGCTTG GGTCCTCGGA      | 850 |
| hUCP2(Chen,Tularik) | AGCCTTCTAC | AAAGGGTCA TGCCCTCCCT TCTCCGCTTG GGTCCTCGGA      | 850 |
| hUCPH               | ACGTGGTGAT | GTTCGTCACC TATGAGCAGC TGAAACGAGC CCTCATGGCT     | 900 |
| hUCP2(Fleury)       | ACGTGGTGAT | GTTCGTCACC TATGAGCAGC TGAAACGAGC CCTCATGGCT     | 900 |
| hUCP2(Chen,Tularik) | ACGTGGTGAT | GTTCGTCACC TATGAGCAGC TGAAACGAGC CCTCATGGCT     | 900 |
| hUCPH               | GCCTGCACTT | CCCGAGAGGC TCCCTCTGAA                           | 930 |
| hUCP2(Fleury)       | GCCTGCACTT | CCCGAGAGGC TCCCTCTGAA                           | 930 |
| hUCP2(Chen,Tularik) | GCCTGCACTT | CCCGAGAGGC TCCCTCTGAA                           | 930 |

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Untitled-5 Formatted Alignment

Figure 2